

7/7/5
DIALOG(R) File 351:DERWENT WPI
(c)1999 Derwent Info Ltd. All rts. reserv.

4/24

001581022

WPI Acc No: 76-15414X/197609

Heat-sensitive material - contg. hydrophilic polymer water and
water-soluble salts for improved reversable thermal changes

Patent Assignee: ASAHI DOW LTD (ASAF)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 51003248	A	19760112					197609 B
JP 81035703	B	19810819					198137

Priority Applications (No Type Date): JP 7472247 A 19740626

Abstract (Basic): JP 51003248 A

A heat-sensitive material which shows reversible thermal change in such a way that it is opaque at above a specific temp. and becomes transparent when cooled to below that specific temp. comprises a mixt. of <5 wt.% of hydrophilic polymer and 0.1-95 wt.% of water and contains water-soluble salt in amt. not exceeding its satn. solubility. The salt is soluble in the mixt.

The hydrophilic polymer dissolves or swells homogeneously in water at a specific temp. e.g. as polyethylene oxide, vinyl alcohol - vinyl acetate copolymer, polyvinyl methyl ether and natural polymers such as polysaccharides. The water-soluble salts include organic and inorganic salts and are used in amts. of 0.1-30 pts. per 100 pts. of the mixt. (by wt.).

Derwent Class: A18; A25; A89; G05; P75

International Patent Class (Additional): B41M-005/26; C09K-003/00